

Atty. Docket No. 98-0967A
Serial No. 09/155,076
December 22, 2004

AMENDMENTS TO THE CLAIMS:

1-12. (Cancelled)

13. (Currently amended) An isolated peptide selected from the group consisting of (a) the a peptide of SEQ ID No. 1, said peptide having a calcium channel modulatory function, and (b) functional variants of the peptide of SEQ ID No. 1, wherein said functional variants (i) comprise at least 6 amino acid residues, (ii) have at least 70% homology with all of the peptide of SEQ ID No. 1 and (iii) retain said calcium channel modulatory function of the peptide of SEQ ID No. 1.

14-15. (Cancelled)

16. (Previously presented) A probe consisting of the peptide of claim 13, labeled with a signal moiety, or immobilized on a solid support.

17-29. (Cancelled)

30. (Previously presented) The peptide as claimed in claim 13, which peptide is a fragment of acetylcholinesterase.

31. (Previously presented) The peptide as claimed in claim 13, which peptide has been chemically synthesized.

32. (Cancelled)

33. (Currently amended) A method for obtaining an antibody comprising using the peptide according to any one of claims 13, 30, and 31 and 32 as an antigen to obtain said antibody.

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34. (Currently amended) A method of screening comprising using the peptide according to any one of claims 13, 30, and 31 ~~and~~ 32 to screen for a compound which inhibits the activity of said peptide as a calcium channel modulator.

35. (Withdrawn) A method of identifying a compound which inhibits calcium channel modulation, said method comprising using the screening method according to claim 34 to screen for and identify said compound.

36-38. (Cancelled)